

TRANSMITTAL LETTER TO THE UNITED STATES

MAT-8156US

DESIGNATED/ELECTED OFFICE (DO/EO/US)

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR 1.5)

CONCERNING A FILING UNDER 35 U.S.C. 371

09/889768

INTERNATIONAL APPLICATION NO.

PCT/JP00/081690

INTERNATIONAL FILING DATE

20.November.2000

PRIORITY DATE CLAIMED

19.November.1999

TITLE OF INVENTION

PRINTER

APPLICANT(S) FOR DO/EO/US

N. Saito, M. Komori

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ A copy of the International Search Report (PCT/ISA/210).
8. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). (unexecuted)
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 20 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☒ Certificate of Mailing by Express Mail
20. ☐ Other items or information:

U.S. APPLICATION NO. (IF KNOWN) (SEE 37 CFR 1.45)

INTERNATIONAL APPLICATION NO.

ATTORNEY'S DOCKET NUMBER

09/889768

PCT/JP00/08169

MAT-8156US

21. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :

- ☐ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$970.00
- ☒ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$840.00
- ☐ International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$690.00
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$670.00
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(1)-(4) \$96.00

ENTER APPROPRIATE BASIC FEE AMOUNT =

\$860.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).

\$0.00

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	20 - 20 =	0	x \$18.00
Independent claims	2 - 3 =	0	x \$80.00

\$0.00

\$0.00

Multiple Dependent Claims (check if applicable). ☐

\$0.00

TOTAL OF ABOVE CALCULATIONS =

\$860.00

Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable). ☐

\$0.00

SUBTOTAL =

\$860.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).

\$0.00

TOTAL NATIONAL FEE =

\$860.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). ☐

\$0.00

TOTAL FEES ENCLOSED =

\$860.00

Amount to be:
refunded

\$

charged

\$

- ☒ A check in the amount of **\$860.00** to cover the above fees is enclosed.
- ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- ☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **18-0350** A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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Daniel N. Calder
SIGNATURE

Daniel N. Calder
NAME

27,424
REGISTRATION NUMBER

July 19, 2001
DATE

MAT-8156US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: N. Saito et al.	: Art Unit:
Serial No.: To Be Assigned	: Examiner:
Filed: Herewith	:
FOR: PRINTER	:
	:

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

S I R :

Prior to examination, please amend the above-identified application
as follows:

IN THE SPECIFICATION:

After the title and before the first paragraph, please insert --THIS
APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT
INTERNATIONAL APPLICATION PCT/JP00/08169--.

IN THE DRAWINGS:

Please delete the last sheet of figures, also labeled as "Reference
numerals".

IN THE CLAIMS:

Please add new claims 6-20 as follows:

- | | |
|---|--|
| 1 | 6. (Newly Added) A printer, comprising: |
| 2 | (a) a main body including a storage space and a printing |

3 section;

4 said storage space having an opening, and storing a
5 printing sheet therein,

6 (b) a cover disposed to cover said opening and said
7 printing section of said main body,

8 said cover being installed to be freely opened and
9 closed at said main body, and

10 (c) a sheet cutting mechanism for cutting said printing
11 sheet,

12 said sheet cutting mechanism including a first sheet
13 cutting mechanism disposed on said cover and a second sheet
14 cutting mechanism disposed on said main body,

15 said a first sheet cutting mechanism and second sheet
16 cutting mechanism cutting said printing sheet.

1 7. (Newly Added) The printer of claim 6,
2 wherein said second sheet cutting mechanism installed
3 opposing said first sheet cutting,

4 said printing sheet stored in said storage space flows
5 said printing section, and

6 said printing sheet is cut by said first sheet cutting
7 mechanism and second sheet cutting mechanism.

1 8. (Newly Added) The printer of claim 6,
2 wherein said first sheet cutting mechanism is disposed
3 at an opening end of said cover.

1 9.(Newly Added) The printer of claim 6,
2 wherein said first sheet cutting mechanism has a
3 stationary blade fixed to said cover, and has a length longer than
4 the width of said printing paper,

5 said second sheet cutting mechanism has movable blade
6 movably disposed in said main body,

7 said. stationary blade and said movable blade cut said
8 printing sheet, by moving of said. movable blade.

1 10.(Newly Added) The printer of claim 9,
2 wherein said stationary blade is a strip shape having

3 longer length than a width of said printing sheet,
4 said printing sheet placed along said stationary blade,
5 said second sheet cutting mechanism has a standby
6 position which is placed at a side direction of said printing sheet,
7 when said movable blade is stood still, said movable
8 blade is placed at said standby position,
9 said movable blade is movably disposed along a length
10 direction of said stationary blade,
11 said movable blade moves along a side surface of said
12 stationary blade, while said printing sheet is place between said
13 movable blade and said stationary blade, and
14 said printing sheet is cut.

1 11. (Newly Added) The printer of claim 10,
2 wherein said movable blade is placed at a place
3 separated from an end of said stationary blade, when said movable
4 blade is stood still at said standby position.

1 12.(Newly Added) The printer of claim 11,
2 wherein said movable blade is placed at a place
3 separated from said side surface of said stationary blade, when said
4 movable blade is stood still at said standby position.

1 13.(Newly Added) The printer of claim 12,
2 wherein second sheet cutting mechanism further
3 includes a spring mechanism,
4 when said movable blade moves, said spring mechanism
5 pushes said movable blade to said side surface.

1 14.(Newly Added) The printer of claim 13,
2 wherein said main body further includes a slope,
3 said slope is disposed at a place opposing said standby
4 position,
5 said movable blade is pushed to said slope by said
6 spring mechanism, moves along said slope, and contacts to said
7 side surface of said stationary blade.

1 15.(Newly Added) The printer of claim 6,
2 wherein a sheet outlet port is formed at a space between

3 an end of said storage space and an inner surface of said cover,.
4 said printing sheet stored in said storage space flows
5 said sheet outlet port and said printing section, and
6 said printing sheet is cut by said first sheet cutting
7 mechanism and said second cutting mechanism.

1 16.(Newly Added) A method for cutting a printing
2 sheet of a printer, comprising the steps of:

3 (a) supplying a printer of claim 1,
4 (b) opening said cover, and setting a printing sheet in
5 said storage space,
6 (c) closing said cover,
7 (d) flowing said sheet through said printing section, and
8 through a space between said main body and said cover,
9 (e) moving at least one of said first sheet cutting
10 mechanism and said second sheet cutting mechanism.

1 17.(Newly Added) The method for cutting a printing
2 sheet of claim 16,

3 wherein at said step (c), said second sheet cutting
4 mechanism installed opposing said first sheet cutting, when said
5 cover is closed,

6 at said step (d), said printing sheet stored in said
7 storage space flows said printing section, and

8 at said step (e), said printing sheet is cut by said first
9 sheet cutting mechanism and second sheet cutting mechanism.

1 18.(Newly Added) The method for cutting a printing
2 sheet of claim 16,

3 wherein said first sheet cutting mechanism has a
4 stationary blade fixed to said cover, and has a length longer than
5 the width of said printing paper,

6 said second sheet cutting mechanism has movable blade
7 movably disposed in said main body,

8 said step (e) includes the step of moving said movable
9 blade along said stationary blade, and cutting said printing sheet by
10 said stationary blade and said movable blade.

- 1 19.(Newly Added) The method for cutting a printing
2 sheet of claim 16,
3 wherein at said step (c), said movable blade is placed at
4 a place separated from an end of said stationary blade and from
5 said side surface of said stationary blade, when said movable blade
6 is stood still at said standby position,
7 at said step (e), said movable blade moves along a side
8 surface of said stationary blade, while said printing sheet is place
9 between said movable blade and said stationary blade, and said
10 printing sheet is cut.
- 1 20.(Newly Added) The method for cutting a printing
2 sheet of claim 16,
3 wherein second sheet cutting mechanism further
4 includes a spring mechanism,
5 at said step (e), said spring mechanism pushes said
6 movable blade to said side surface, when said movable blade
7 moves.

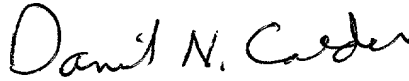
IN THE ABSTRACT:

Please replace the following Abstract:

ABSTRACT

The present invention simplifies the operation to set the printing sheet in the printer. The present invention includes main body, storage space for printing sheet, which is disposed in the main body and having a top opening, cover which is installed at the top opening of the storage space and can be freely opened and closed, printing sheet stored in the storage space, sheet outlet port formed between the opening end of the cover and the storage space wall opposing thereto, printing section disposed below the sheet outlet port, and sheet cutting means disposed below the printing section, wherein the sheet cutting means includes stationary blade disposed on the opening end of the cover located below the printing section, and movable blade disposed on the main body portion opposing to the stationary blade.

Respectfully Submitted,



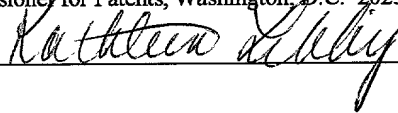
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The Assistant Commissioner for Patents is hereby
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I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using
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Kathleen Libby

106101-89268860

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

After the title and before the first paragraph, please insert THIS APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT INTERNATIONAL APPLICATION PCT/JP00/08169.

IN THE CLAIMS:

Claims 6-20 have been added.

IN THE ABSTRACT:

ABSTRACT

The present invention simplifies the operation to set the printing sheet in the printer. The present invention includes main body-(1), storage space-(3) for printing sheet-(2), which is disposed in the main body-(1) and having a top opening, cover (4) which is installed at the top opening of the storage space (3) and can be freely opened and closed, printing sheet (2)-stored in the storage space-(3), sheet outlet port-(5) formed between the opening end of the cover-(4) and the storage space wall opposing thereto, printing section-(6) disposed below the sheet outlet port-(5), and sheet cutting means (7)-disposed below the printing section-(6), wherein the sheet cutting means (7)-includes stationary blade (10) disposed on the opening end of the cover (4)-located below the printing section-(6), and movable blade (13)-disposed on the main body (1)-portion opposing to the stationary blade-(10).

5/PRYS

09/889768
JC18 Rec'd PCT/PTO 19 JUL 2001

1

Description

Printer

5 Technical Field

The present invention relates to a printer.

Background Art

10 A conventional printer comprises a main body, a storage
space for printing sheet, which is disposed in the main body
and having a top opening, a cover which is installed at the
top opening of the storage space and can be freely opened and
closed, a printing sheet stored in the storage space, a sheet
15 outlet port formed between the opening end of the cover and
the storage space wall opposing thereto, a printing section
disposed below the sheet outlet port, and a sheet cutting
means disposed below the printing section.

The problem of the conventional printer is that the
operation to set the printing sheet is complicated.

20 That is, in the sheet cutting means of the conventional
printer, both of a stationary blade and a movable blade are
installed at the main body side. Accordingly, when setting
the printing sheet, it is necessary to pull the end of the
printing sheet out of the sheet outlet and, after that, to
25 let the printing sheet pass between the stationary blade and

the movable blade below the printing section. Particularly, since the gap between the stationary blade and the movable blade is very narrow, the operation to pass the printing sheet between the stationary blade and the movable blade is
5 troublesome.

Summary of the Invention

The present invention is intended to simplify the printing sheet setting operation.

10 In order to achieve the purpose, the printer of the present invention has a sheet cutting means which comprises a first cutting blade installed at the opening end of the cover located below the printing section, and a second cutting blade installed at the main body portion opposing to the
15 first cutting blade.

As is seen in this configuration, since the first cutting blade of the sheet cutting means is disposed at the opening end of the cover, the printing sheet is stored in the storage space, and the end of the printing sheet is brought out of
20 the sheet outlet port until at least reaching the printing section before closing the cover. In this way, the first cutting blade disposed on the cover is opposed to the second cutting blade at the main body side, thereby composing the sheet cutting means. Accordingly, it is possible to simplify
25 the operation to set the printing sheet.

Brief Description of the Drawings

Fig. 1 is a sectional view of essential parts of the printer in one embodiment of the present invention. Fig. 2 is a perspective view of essential parts of the printer shown in Fig. 1. Fig. 3 is a perspective view of the cover of the printer shown in Fig. 1. Fig. 4 is a perspective view of the mounting frame attached to the cover of the printer shown in Fig. 1. Fig. 5 is a perspective view of the movable blade of the printer shown in Fig. 1. Fig. 6 is a perspective view of the movable blade of the printer shown in Fig. 1. Fig. 7 is a sectional view of the movable blade of the printer shown in Fig. 1. Fig. 8 is a sectional view of the movable blade of the printer shown in Fig. 1.

Best Mode for Carrying Out the Invention

One embodiment of the present invention will be described in the following with reference to the drawings.

As shown in Fig. 1, the printer of the present embodiment comprises a main body 1, a storage space 3 for printing sheet 2, which is disposed in the main body 1 and having a top opening, a cover 4 which is installed at the top opening of the storage space 3 and can be freely opened and closed, a sheet outlet port 5 formed between the opening end of the cover 4 and the storage space wall opposing thereto, a

printing section 6 disposed below the sheet outlet port 5, and a sheet cutting means 7 disposed below the printing section 6.

The storage space 3 is concavely formed by the main body 1, and there is provided the cover 4 thereabove.

The cover 4 has a shaft hole 4a at the bottom right portion of the cover as shown in Fig. 2 and Fig. 3. By a shaft 8 of Fig. 1 inserted into the shaft hole 4a, the cover 4 is disposed at the top opening of the storage space 3 and can be freely opened and closed.

Also, a mounting frame 9 shown in Fig. 4 is installed at the bottom left of the cover 4, and a stationary blade 10 as a first cutting blade protruding to the left is disposed at the upper part of the mounting frame 9. Also, a cylindrical platen roller 12 is rotatably disposed by a shaft 11 at the lower part of the mounting frame 9.

Also, when the cover 4 is closed as shown in Fig. 1, a thermal head as the printing section 6 is located opposing to the platen roller 12.

And a movable blade 13 as a second cutting blade composing the sheet cutting means 7 is disposed together with the stationary blade 10 above the printing section 6.

A mounting frame 14 for the movable blade 13 is engaged with a screw thread 15 shown in Fig. 1, and the screw thread 15 is rotated in one direction by motor 16, then the movable

blade 13 makes a reciprocal motion in the groove provided in the surface.

That is, as shown in Fig. 8, the movable blade 13 stays in the standby position outside the stationary blade 10, and is actuated by spring 17 against the upper surface of the stationary blade 10 outside the end of printing sheet 2 as shown in Fig. 7, Fig. 5 and Fig. 6. Thus, the movable blade 13 moves from the standby position while sliding on the surface of the stationary blade 10.

And in this way, the printing sheet 2, after printing at the printing section 6, is cut and separated by the sheet cutting means 7 comprising these stationary blade 10 and movable blade 13.

In addition, since the stationary blade 10 is disposed at the opening end of the cover 4, the printing sheet 2 is stored in the storage space 3, the end of the printing sheet 2 is brought out of the sheet outlet port 5 until at least reaching the printing section 6 before the cover 4 is closed. Thus, the stationary blade 10 disposed on the cover 4 is opposed to the movable blade 13 at the main body side, composing the sheet cutting means 7. Accordingly, it is possible to simplify the operation to set the printing sheet 2.

Further, since the cover 4 has the stationary blade 10 as a first cutting blade, it is possible to make the cover 4

compact. And thereby, the storage space 3 can be increased in space, and also the cover 4 can be decreased in height.

And, the movable blade 13, at the standby position as shown in Fig. 8, slowly goes up the slope 18 outside the stationary blade 10 and moves thereabove without abutting the stationary blade 10.

That is, the movable blade 13 moves along the stationary blade 10, and the standby position of the movable blade 13 is provided outside the stationary blade 10. Accordingly, the movable blade 13 is at the standby position outside the stationary blade 10 when the cover 4 is opened and closed. Thus, trouble such as collision of the stationary blade 10 and the movable blade 13, impeding the opening and closing operation or giving damage to both blades 10 and 13 may be prevented when the cover 4 is opened and closed.

Also, the movable blade 13 moves up at the standby position. Therefore, when the movable blade 13 moves from the standby position with the cover 4 closed, the movable blade 13 approaches the upper surface of the stationary blade 10 from the up position. Accordingly, even when the position of the stationary blade 10 is slightly changed with the cover 4 closed, the movable blade 13 is able to precisely approach thereto from the up position to smoothly cut the printing sheet 2.

There is provided a spring 17 to actuate the movable

blade 13 downward, so that an appropriate relationship may be maintained between the stationary blade 10 and the movable blade 13. Thus, it is possible to smoothly cut the printing sheet 2.

5 The printing sheet 2 is held and carried between the platen roller 12 and the printing section 6 as a gear (not shown) installed in the main body 1 is engaged with gear 19 fixed to the end of shaft 11 of the platen roller 12.

10 Industrial Applicability

As described above, the present invention comprises a main body, a storage space for printing sheet, which is disposed in the main body and having a top opening, a cover which is installed at the top opening of the storage space
15 and can be freely opened and closed, a printing sheet stored in the storage space, a sheet outlet port formed between the opening end of the cover and the storage space wall opposing thereto, a printing section disposed below the sheet outlet port, and a sheet cutting means disposed below the printing
20 section, wherein the sheet cutting means comprises a first cutting blade disposed on the opening end of the cover located below the printing section and a second cutting blade disposed on the main body portion opposing to the first cutting blade. Since the first cutting blade included in the
25 sheet cutting means is installed on the opening end of the

cover, the printing sheet is stored in the storage space, and the end of the printing sheet is brought out of the sheet outlet port until at least reaching the printing section before closing the cover. In this way, the first cutting
5 blade installed on the cover is opposed to the second cutting blade at the main body side, composing the sheet cutting means. As a result, the printing sheet setting operation can be simplified.

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20

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CLAIMS

1. A printer, comprising:

a main body;

5 a storage space for printing sheet, said storage space being disposed in said main body and having a top opening;

a cover which is installed at said top opening of the storage space and can be freely opened and closed;

a printing sheet stored in said storage space;

10 a sheet outlet port formed between an opening end of the cover and a storage space wall opposing thereto;

a printing section disposed below said sheet outlet port; and

15 a sheet cutting means disposed below said printing section,

wherein said sheet cutting means comprises a first cutting blade disposed on the opening end of said cover located below said printing section and

20 a second cutting blade disposed on the main body portion opposing to said first cutting blade.

2. The printer of claim 1,

wherein said first cutting blade is a stationary blade, and said second cutting blade is a movable blade.

3. The printer of claim 2,
wherein said movable blade moves along said stationary
blade, and

5 a standby position of said movable blade is provided
outside said stationary blade.

4. The printer of claim 3,
wherein said movable blade moves up at said standby
10 position.

5. The printer of claim 4,
wherein there is further provided a spring to actuate said
movable blade downward.

15

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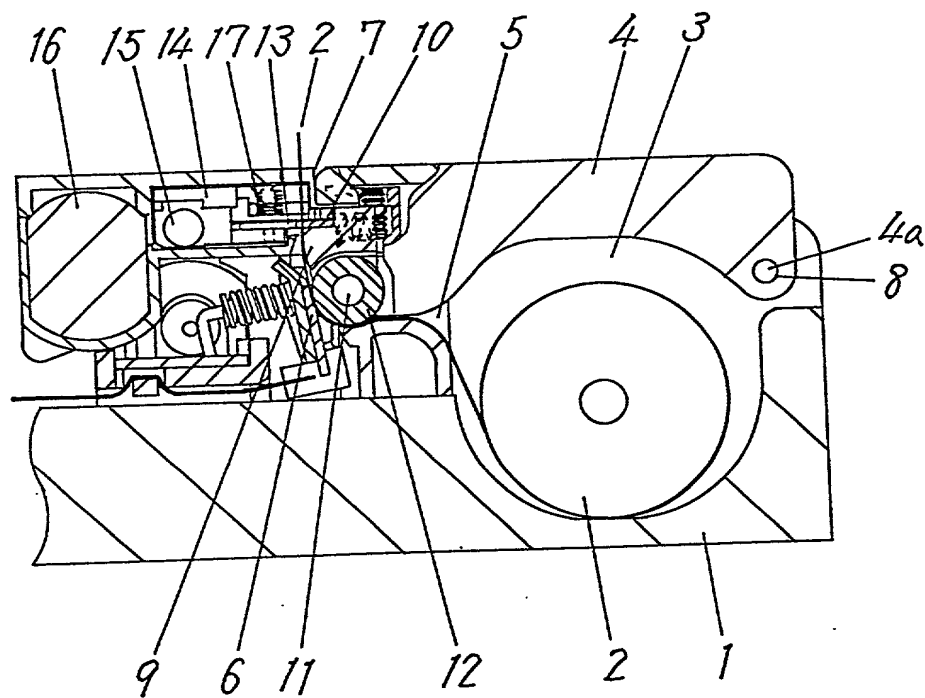
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ABSTRACT

The present invention simplifies the operation to set the printing sheet in the printer. The present invention includes main body (1), storage space (3) for printing sheet (2), which is disposed in the main body (1) and having a top opening, cover (4) which is installed at the top opening of the storage space (3) and can be freely opened and closed, printing sheet (2) stored in the storage space (3), sheet outlet port (5) formed between the opening end of the cover (4) and the storage space wall opposing thereto, printing section (6) disposed below the sheet outlet port (5), and sheet cutting means (7) disposed below the printing section (6), wherein the sheet cutting means (7) includes stationary blade (10) disposed on the opening end of the cover (4) located below the printing section (6), and movable blade (13) disposed on the main body (1) portion opposing to the stationary blade (10).

1/5

Fig. 1



2/5

Fig. 2

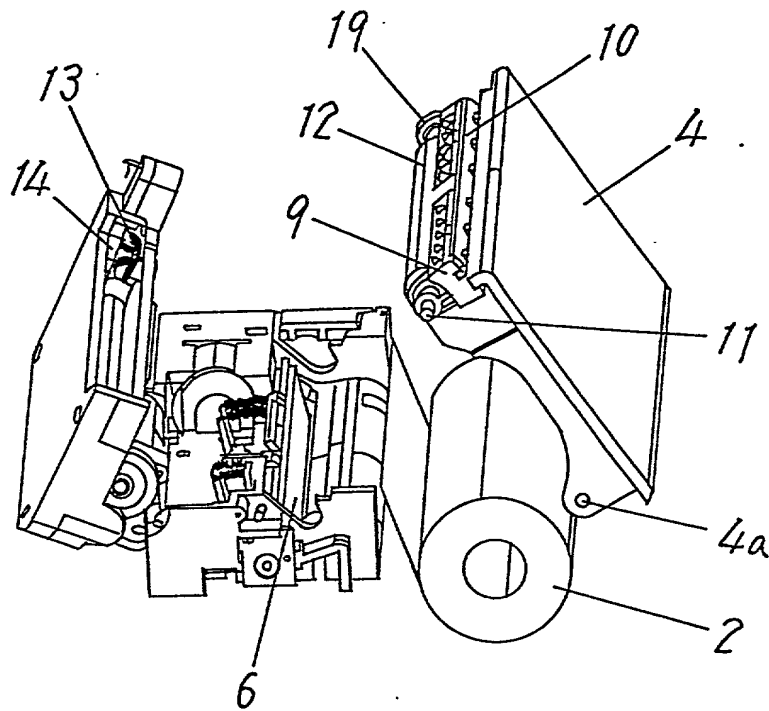
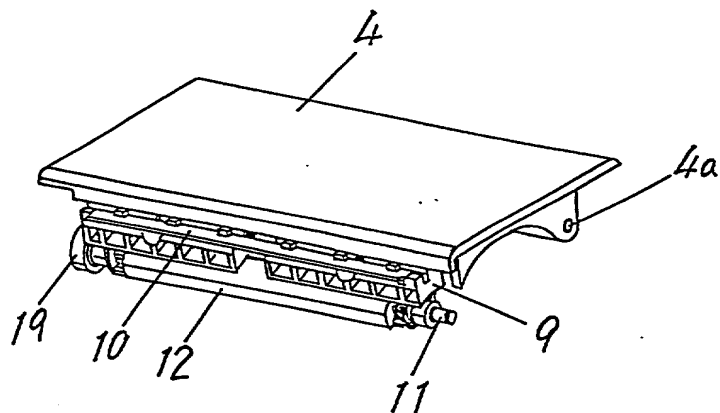


Fig. 3



3/5

Fig. 4

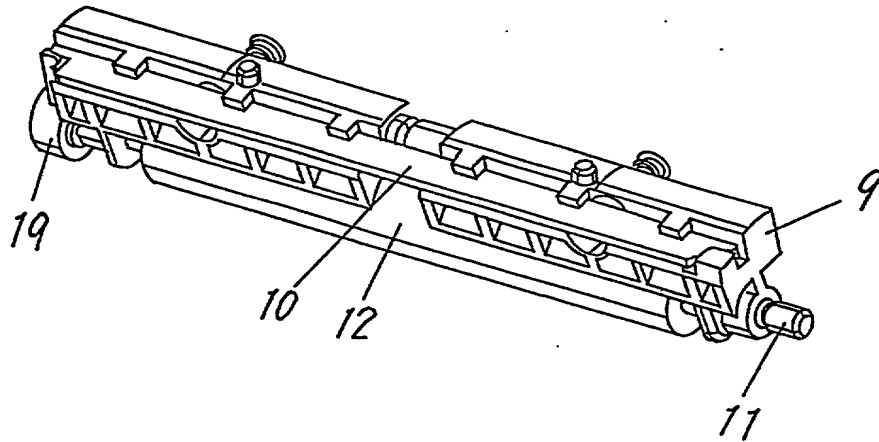


Fig. 5

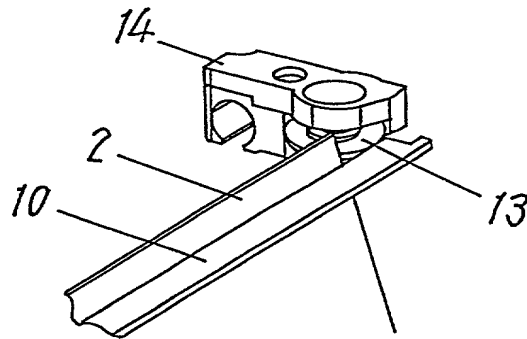
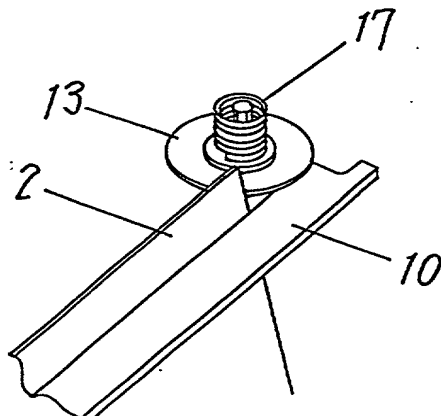


Fig. 6



4/5

Fig. 7

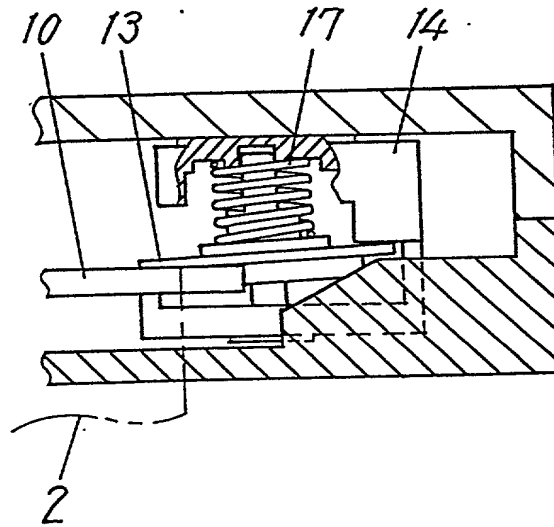
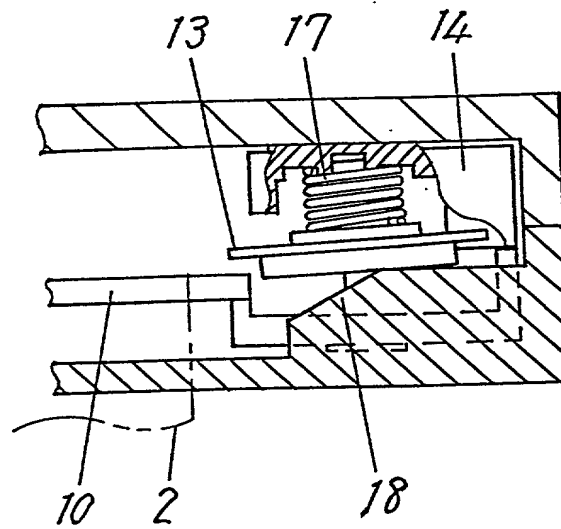


Fig. 8



5/5

Reference Numerals

- 1 Main body
- 5 2 Printing sheet
- 3 Storage space
- 4 Cover
- 4a Shaft hole
- 5 Sheet outlet port
- 10 6 Printing section
- 7 Sheet cutting means
- 8 Shaft
- 9 Mounting frame
- 10 Stationary blade
- 15 11 Shaft
- 12 Platen roller
- 13 Movable blade
- 14 Mounting frame
- 15 Screw thread
- 20 16 Motor
- 17 Spring
- 18 Slope
- 19 Gear

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

PRINTER,

the specification of which is attached hereto unless the following box is checked:



was filed on November 20, 2000 as

United States Application Number or PCT International Application Number PCT/JP00/08169

and was amended on July 19, 2001 by Preliminary Amendment (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Not Claimed

11-329514

Japan

19/November/1999

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

(Application Number)

(Filing Date)

(Application Number)

(Filing Date)

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Number)

(Filing Date)

(Status - patented, pending, abandoned)

(Application Number)

(Filing Date)

(Status - patented, pending, abandoned)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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